HYDROLOGY

F13/D11
THREE PLANS

F13/D11

3 Plans

THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

PLAN SHOT IN TWO SECTIONS.

THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

—TRES PINOS AD

INDEX

TITLE SHEET

PLAT

DRAINAGE, GRADIN
IMPROVEMENTS

WATER & SEWER
AND PROFILE

THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

PLAN SHOT IN TWO SECTIONS.

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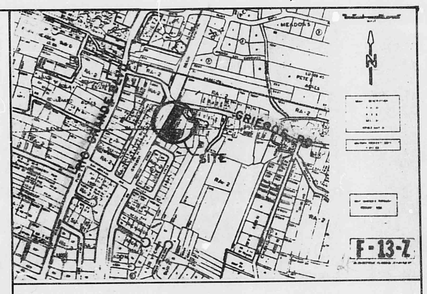
DITION —

1

2

G, & STREET PLAN 3

PLAN 4



NOTICE TO CONTRACTORS

1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for herein, be constructed in accordance with the New Mexico Standard Specifications for Public Works Construction-1979 Edition (referred to herein as the Standard Specifications) and the Contract Documents for Public Works Contract 85-1
2. Two (2) working days prior to any excavation, the contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
3. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer or surveyor so that the conflict can be resolved with minimum amount of delay.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [X] All utilities and utility service lines shall be installed prior to paving.
- [X] Backfill compaction shall be according to specified street use. ARTERIAL
- [X] Tack coat requirements shall be determined by the City Engineer.
- [X] Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
- [X] If curb is depressed for a drivepad or a handicap ramp, the drivepad or ramp shall be constructed prior to acceptance of the curb and gutter.
- [ ] All storm drainage facilities shall be completed prior to final acceptance.
- [X] Contractor must submit a traffic control plan and obtain a barricading permit prior to construction on GRIEGOS RD. NW

RECEIVED
NOV 19 1985
HYDROLOGY SECTION

REV	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
1	3, 4						

APPROVAL OF REVISIONS

MARVIN R. KORTUM NEW MEXICO 6518 REGISTERED PROFESSIONAL ENGINEER

Marvin R Kortum
1605 Speakman Dr. SE
Albuquerque, NM 87123

APPROVED FOR CONSTRUCTION

CE

PROJET NUMBER 2382

SHEET 1 OF 4

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NOTES

(A) PCC INTERSECTION GUTTER & RUN UP, 6" THICK.

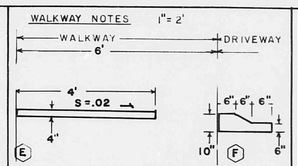
(B) REPLACE GUTTER, SIDEWALK, & DRIVEPADS WHICH ARE DAMAGED DURING UTILITIES TRENCHING.

(C) ALL CURB RETURNS TO BE CONSTRUCTED WITH WHEEL CHAIR RAMPS.

(D) REPLACE ALL PAVING AND SUPPORT MATERIALS WHICH ARE DISTURBED DURING UTILITIES TRENCHING.

RUNOFF, 100 YR STORM
TOTAL 6920 CF
PEAK 4 CF/S

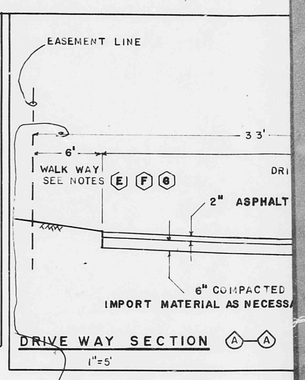
WALKWAY NOTES 1"= 2'



(E) PLACE PCC SIDEWALK AS SHOWN AFTER DRIVEPADS ARE PLACED

(F) PLACE ROLL OVER CURB ALONG UNFENCED EDGE OF ASPHALT AS SHOWN. DIMENSIONS OF PROFILE MAY VARY TO MATCH AVAILABLE DIE

(G) PLACE 4" DRAIN PIPE UNDER SIDE WALK AND DEPRESS CURB AT SWALES



DRIVE WAY SECTION (A)-(A)
1"=5'

33' PRIVATE EASEMENT FOR INGRES
AND GAS LINE AND PRIVATE DRAI

R=4' TO FACE OF CURB (TYPICAL)

SAN MARTIN PL. NW

UNDEDICATED PUBLIC WAY

OVER HEAD TO UNDER GROUND TELEPHONE TRANSFER POINT

N19°19'00"E 65.12'

CURB & GUTTER

SIDEWALK

EXISTING D

CHAIN LI

GRIEGOS RD. NW

42" D RCP STORM DRAIN

N40°57'00"W 128.19'

DROP INLET FL65.80 INV62.30

DROP INLET FL63.74 INV 62.04

INV 60.6

INV 60.35

UG GAS LINE

S67°00'44"E

FFE = 69.4

R=3267.27'

Δ=05°25'11" L=319.87'

Δ=07°59'44" L=176.85'

GRIEGOS DRAIN

N37°03'00"W 126.29'

TRES PINOS LN. NW

N32°57'00"E 203.10'

111.91'

SLOPE .0033ft/ft

FL 67.30 TC 67.66

FL 67.60 TC 67.93

FFE = 69.7

FFE = 70.0

L=56.97'

Δ=02°34'33"

S59°01'00"E 55.07'

S30°59'00" 259.07'

134.10'

N37°03'57"W 121.17'

EXISTING SAS MH642

NEW SAS LINE

EXISTING ASPHALT SURFACE

EXISTING GRAVEL SURFACE

PCC MEDIAN C.&G. R=3.5, Δ=180°

PCC VALLEY GUTTER

PCC DRIVEPAD 6" THICK

1/2" EXPANSION JOINTS (TYPICAL)

3 #NO 4 RBAR AT 16" O.C.

NEW MH A

PROPERTY LINE

NEW GRAVEL SURFACE

PCC STD. C.&G. W/WHEEL CHAIR RAMP

R=20', Δ=84°

MATCH NEW WORK TO EXISTING VERTICAL AND HORIZONTAL ALIGNMENT

GRIEGOS RD DESIGN DATA:
VERTICAL:
SLOPE 0.32%
HORIZONTAL:
R=574.71' (TO FACE OF CURB)

	FL	TC
①	66.32	66.93
②	66.49	67.10
③	66.66	66.66
④	66.83	67.45
⑤	—	67.22
⑥	—	67.67
⑦	66.75	67.25
⑧	66.60	67.10
⑨	66.77	67.27

TRES PINOS ENTRANCE DETAILS

SEE DWG P-9 FOR SECTIONS AND DETAILS

SCALE: 1" = 10'

TRES PINOS SUBDIVISION IS ENCLOSED BY A WOOD BOARD AND ADOBE WALL. THE ADOBE SECTIONS ARE SET ON CONCRETE AND CMU FOOTINGS AND ARE EFFECTIVE AS SURFACE FLOW BARRIERS. THE WOOD BOARD SECTIONS PERMIT SEEPAGE UNLESS BANKED WITH EARTH

TRES PINOS ADDITION

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PLAN SHOT IN TWO SECTIONS.

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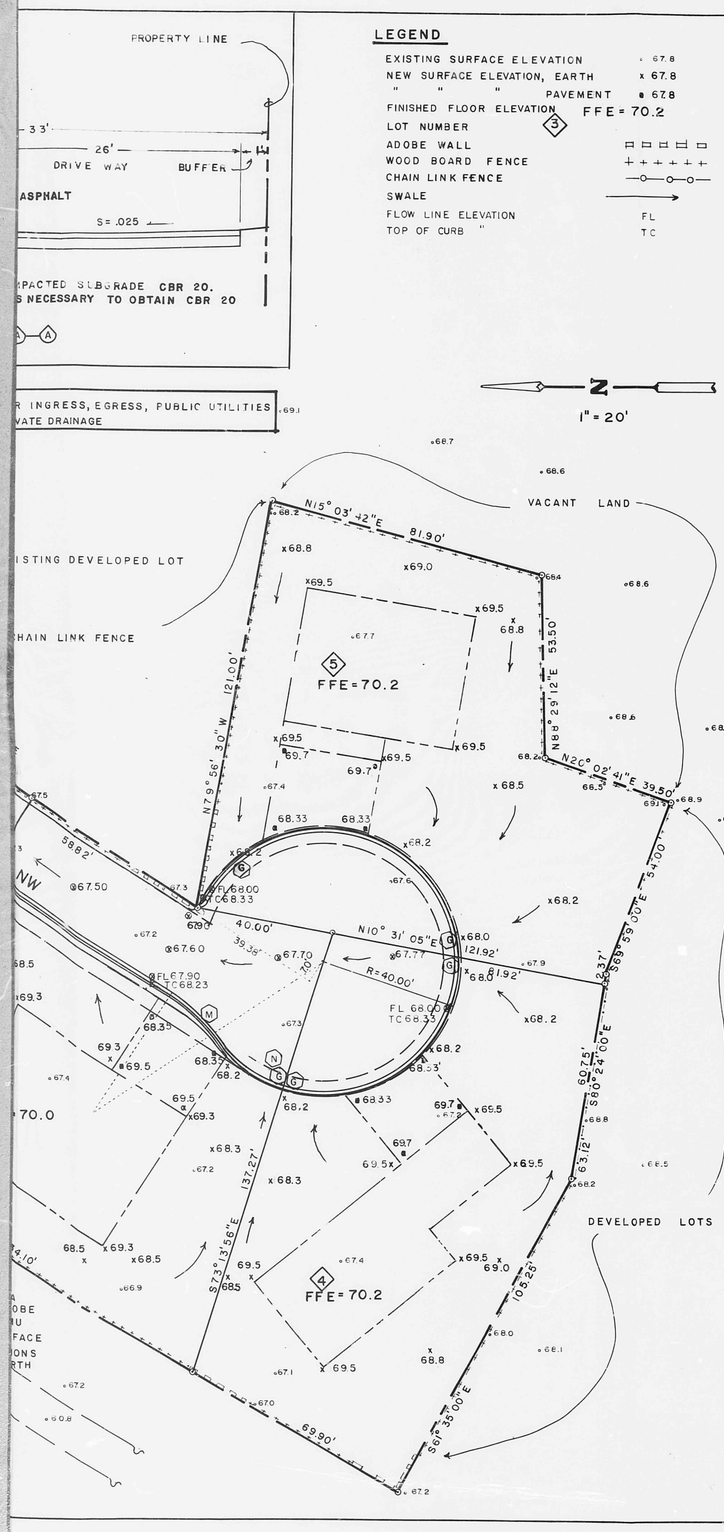
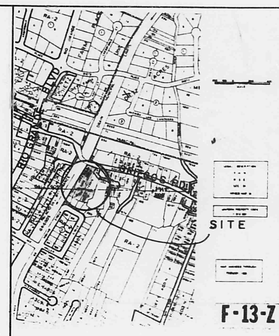


LEGEND

EXISTING SURFACE ELEVATION	◦ 67.8
NEW SURFACE ELEVATION, EARTH	x 67.8
" " " PAVEMENT	● 67.8
FINISHED FLOOR ELEVATION	FFE = 70.2
LOT NUMBER	(3)
ADOBE WALL	□□□□□
WOOD BOARD FENCE	+++++
CHAIN LINK FENCE	—o—o—o—
SWALE	→
FLOW LINE ELEVATION	FL
TOP OF CURB "	TC



DRAINAGE NOTES:

Swales are designed along interior property lines to provide for run-off from adjacent lots to flow to the common access and drain. If property lines are fenced, the property to be fenced shall be enclosed in a footing along the fence line which will prevent flow across the property line.

House locations and outlines as shown are general. Actual houses to be constructed should be placed and designed to permit a drainage pattern similar to that shown. The house locations shown do not necessarily comply with covenant and code limitations for the area.

All roof drainage will be designed to drain into the existing drainage easement.

PAVING

REFER TO STD.DWG.

P-4	ART./COLL. ST SECTION
P-8	CURB AND GUTTER
P-9	CONCRETE VALLEY GUTTER
P-13	SIDEWALK DETAILS
P-17	WHEEL CHAIR RAMPS
P-25	PAVEMENT CUTS FOR ALL UTILITIES

PCC CURB & GUTTER LOCATION:
ALL MEASURMENTS TO BACK OF CURB

(H) START POINT 30.67' N46° 37" W FROM NW CORNER (ON PROPERTY LINE)
(J) 72.17' S18° 33' 22" W
(K) CURVE SEE TABLE BELOW
(L) 208.86' S 32° 57" W
(M) CURVE
(N) CURVE CENTERED ON CUL-DE-SAC

CURVE DATA

	Δ	R	L	T
(K)	14° 23' 38"	2500'	628'	3.16'
(M)	22° 15' 46"	40.00'	15.60'	7.90'
(N)	302° 20' 29"	40.00'	211.15'	

(P) TRANSITION FROM STANDARD C & G TO ROLL OVER C & G AT PROPERTY LINE
(Q) PLACE STANDARD C & G FROM PCC ENTRY PAD TO PROPERTY LINE

AS BUILT INFORMATION

CONTRACTOR
WORK STARTED BY DATE
INSPECTORS ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
AS-BUILT CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO

BENCH MARKS

BENCH MARK 7-F13 Elev 4970.766
Located at the intersection of Rio Grande Blvd, and Griegos Rd., N.W. in the southeast quadrant of the intersection. The BM is a square chisled on top of the concrete curb at the SSE curb return.

SURVEY INFORMATION

FIELD NOTES BY DATE
84-429 SW SURVEY JUNE 6, 1984

ENGINEER'S SEAL

Marvin R Kortum
1405 Spearman Dr. SE
Albuquerque, NM 87123
(505) 299-0774

NO.	DATE	REMARKS	BY
1	NOV15,85	ADD ASPHALT SURFACE, ROLL OVER CURB	MRK

REVISIONS
DESIGN DESIGNED BY MARVIN R KORTUM DATE APR 28, 1985
DRAWN BY MARVIN R KORTUM DATE APR 28, 1985
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

NOV 19 1985
HYDROLOGY SECTION

TITLE: DRAINAGE, GRADING, & STREET IMPROVMENTS PLAN —TRES PINOS ADDITION—

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	6/21/85	Liquid Waste	NA MRK	5/15/85
A.C.E.-Design	[illegible]	6/21/85	Traffic	[illegible]	5/01/85
~~A.C.E.~~-Hydrology	[illegible]	5/15/85	Water	NA MRK	5/15/85

DRAWING NO. 2382 | MAP NO. F-13 | SHEET 3 OF 4

TRES PINOS ADDITION

LEGEND

	EXISTING	NEW
WATER MAIN	---W---	—W—
GATE VALVE	---⋈---	—⋈—
SERVICE METER		
FIRE HYDRANT		
SEWER MAIN W/MH	--SAS--	—SAS—
SEWER SERVICE STUBOUT		—SD—
STORM DRAIN MH	--SD--	
LOT NUMBER		(5)
FINISHED FLOOR ELEVATION		FFE
TOP OF PIPE ELEVATION		TP
UNDER GROUND		UG

N

H 1"=20'
V 1"=2'

GRIEGOS RD. N.W.

SAN MARTIN PL N.W.

TRES PINOS LN. N.W.

4" CI WATER MAIN W/VALVE LOCATION UNKNOWN

10" CI

8" VCP SAS

4" PVC W

GAS UG

STA 1+31 · STA 1+61 · STA 2+73 · STA 3+30

ELEV 61.2 TOP OF PIPE ELEV 60.85 INV OF 4" SERVICE

ELEV 61.25 TOP OF PIPE ELEV 60.90 INV OF 4" SERVICE

WATER METER BOX DOUBLE SERVICE 3/4" TOP OF PAD ELEV 67.63

ELEV 61.95 TOP OF PIPE ELEV 61.60 INV OF 4" SERVICE LINE

ELEV. 62.85 TOP OF PIPE · ELEV 62.50 INV OF 4" SERVICE LINE

WATER METER BOX SINGLE SERVICE 3/4" TOP OF PAD ELEV 68.37

ELEV 61.6 TOP OF PIPE ELEV 61.25 INV OF 4" SERVICE LINE

WATER METER BOX DOUBLE SERVICE 3/4" TOP OF PAD ELEV 68.37

① ② ③ ④ ⑤

EXISTING SAS MH 642
RIM 66.72
INV. 57.22 (24" LINE AT CENTER)

EXISTING SD MH 704
RIM 66.64
INV. 60.31

10" X 10" X 4" TAPPING SLEEVE, 4" GATE VALVE, THRUST BLOCKING, TYPE A VALVE BOX

RIM ELEV 66.8 · INV IN 58.76 · INV OUT 58.66 · DEPTH 9.14'

RIM ELEV 67.8 · INV OUT 60.63 · DEPTH 7.17

69.4 FFE 1 · 69.7 FFE 2 · 70.0 FFE 3 · 70.2 FFE 5 · 70.2 FFE 4

FINISHED SURFACE (SEE SHEET 4)

EXISTING SURFACE

MH 644 SAN MARTIN PL

6" M.P GAS MAIN

42" SD TOP OF PIPE 64.10

COMPUTED ELEV. AT WATER LINE (20' WEST OF MH 642)

COMPUTED ELEV AT SEWER LINE (14' W MH 704) BOTTOM OF PIPE 59.95

SD 42" 59.92 BOTTOM OF PIPE

SAS 24" 58.45 TOP OF PIPE

350' 4" PVC ELEV. TOP OF PIPE 63.00

63.00 END OF WATER LINE CAP AND THRUST BLOCK

62.85 TP 5 · 61.95 TP 3 · 61.6 TP 4 · 61.2 TP 1 · 61.25 TP 2

SAS 8" PVC 311' AT S=.006

SAS 8" PVC 43' AT S=.006

STA 0+00 MH 642 INV IN-NEW LINE 58.40

STA 0+47 SAS MH A 4' DIA. TYPE E

STA 3+62 SAS MH B 4' DIA. TYPE C

4970 · 66 · 64 · 62 · 4960 · 58 · 56

0+00 · 1+00 · 2+00 · 3+00 · 4+00

NOTES

horizontal and vertical locations of existing utilities as shown on the drawing are approximate as determined by surface checks and as-built documents. At the time of excavation, if significant differences are found, notify the Engineer.

After placing the tapping sleeve and valve, fit 45° bends and DI pipe as shown to cross over the 42" storm drain. The first seven joints on the pipes and fittings shall be restrained joints. Provide thrust blocking at the fourth (southern) 45° bend (eigth joint) and continue the water main with PVC pipe as shown. At the location where the water line crosses over the storm drain, place a ¾" thick rubber or neoprene material between the water line and the storm drain pipe. Also place the water line at least 4" above the storm drain pipe.

The existing 4" CI water main and valve were not located. Either locate prior to excavation or use care in excavation. Other abandoned utilities piping may be in the excavated area.

Water service lines shall be routed so they are at least 18" above any sewer line.

WATER

Refer to Std. Dwg.
W-1 Water Line Connection Details
W-2 Valve Box Type A
W-4 Ring and Cover for Valve Box
W-7 Plastic Pipe Trench Terminology
W-8 Water Valve Anchorage
W-10 Meter Service Line Installation
W-16 Meter Box Plan and Section
W-19 Meter Box Cover and Lid
W-22 Concrete Blocking Design

SEWER

Refer to Std. Dwg.
S-1 Manhole Type C
Place Rim to Elevation shown on the drawings ~~and slope the PCC collar "A" to the finished street surface.~~
S-2 Manhole Type E.
Place Rim to Elevation shown on the drawings ~~and slope the PCC collar "A" to the finished street surface.~~
S-3 Conc, MH Cover Type C
S-5 Manhole Frames and Covers
S-6 Service Line at Dead End Manhole
S-8 Riser Details, Flexible Pipe Main
S-12 Sewer Line Dead-end Marker

RECEIVED NOV 19 1985 HYDROLOGY SECTION

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
SURVEYS BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS TO BE CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

BENCH MARKS
1 BM RIM MH 642 ELEV 66.72
BENCH MARK 7-213 Elev 4970.766 located at the intersection of Rio Grande Blvd. and Griegos Rd., N.W. in the southeast quadrant of the intersection. The BM is a square chiseled on top of the concrete curb at the SSE curb return.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
84-429	S W SURVEY	JUNE 6, 1984

ENGINEER'S SEAL

Marvin R Kortum
1808 Spruce St., SE
Albuquerque, NM 87123
(505) 299-0774

NO.	DATE	REMARKS	BY
1	NOV 15, 85	ADD ASPHALT SURFACE, ROLLOVER C MRK	

REVISIONS
DESIGN — DESIGNED BY MARVIN R KORTUM DATE APR 28, 1985
DRAWN BY MARVIN R KORTUM DATE APR 28, 1985
CHECKED BY — DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SEWER PLAN & PROFILE —TRES PINOS ADDITION—

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	6/21/85	Liquid Waste	[illegible]	5/15/85
A.C.E.-Design	[illegible]	6/21/85	Traffic	[illegible]	5/21/85
~~A.C.E.~~-Hydrology	[illegible]	5/15/85	Water	[illegible]	5/15/85

DRAWING NO. 2382 · MAP NO. F-13 · SHEET 4 OF 4